

Two new species and one new subspecies of Pyrginae (Lepidoptera, Hesperiidae) from Sumatra and Laos

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Abstract Two new species and one new subspecies of the Pyrginae are described and illustrated: *Capila sumatrana* sp. nov. from Sumatra, *Pintara prasobsuki lao* subsp. nov. from Laos, and *Coladenia koiwayai* sp. nov. from Laos. One taxonomic status is changed: *Pintara prasobsuki* (EK-Amnuay, 2006), stat. nov., which was originally described as a subspecies of *Capila paupernetata*.

Key words Taxonomy, *Capila sumatrana* sp. nov., *Pintara prasobsuki lao* sp. nov., *Coladenia koiwayai* sp. nov., *Pintara prasobsuki* (EK-Amnuay, 2006), stat. nov., Hesperiidae, Sumatra, Laos.

Capila sumatrana Maruyama & Uehara, sp. nov. (Figs 1–4, 35–37)

Description. ♂. Palpus: second segment yellow; third segment thick and short. Antenna: length 12.8 mm; shaft black; club arcuate, black; apiculus black. Forewing: length 31.0 mm, upper side white, marginal and apical area black, with black spots in spaces 2, 3 and in cell, cilia black; underside same as upper side. Hindwing: length 23.3 mm, upper side white, marginal and tornal area black, with black spots in spaces 1b to 7, cilia black; underside same as upper side.

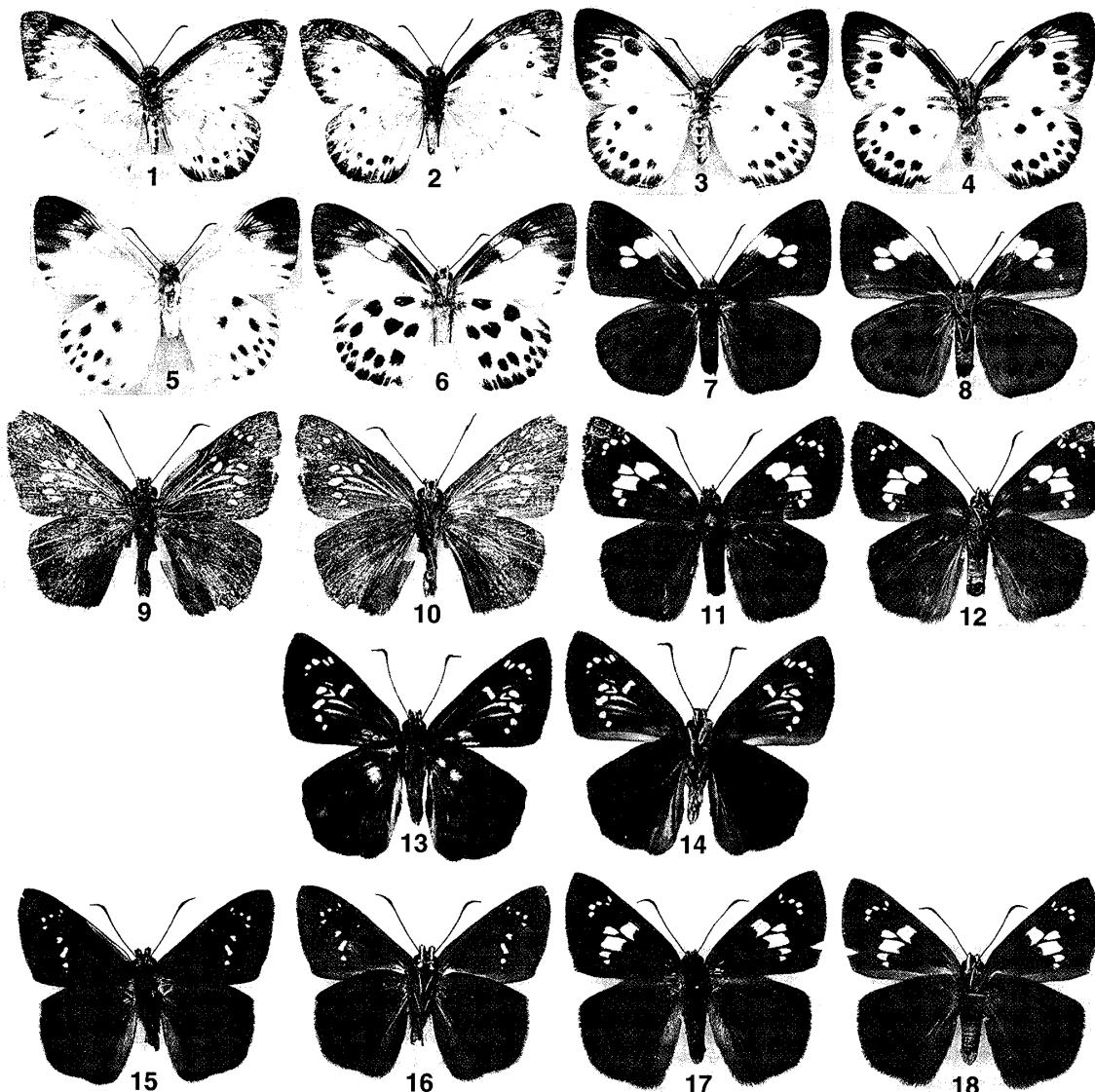
Male genitalia. Uncus tip narrow. Valva divided into three parts, the upper one (harpe) projecting, the central one bent inwards, and the lower one (cuiller) broad and bent upwards. Aedeagus slender.

♀. Palpus: second segment yellow; third segment thick and short. Antenna: length 12.9 mm; shaft black; club arcuate, black; apiculus black. Forewing: length 32.8 mm, upper side white, marginal and apical area black, with black spots in spaces 1b, 2, 3 and in cell, spots in spaces 2, 3 and in cell large, cilia black; underside same as upper side. Hindwing: length 25.6 mm, upper side white, marginal and tornal area black, with black spots in spaces 1b to 7 and in cell, cilia black; underside same as upper side.

Material examined. Holotype ♂, Mt Dempo, E. Sumatra, May 1997, now in K. Maruyama collection (Tokyo), will be deposited in The Research Institute of Evolutionary Biology (Tokyo). Paratypes. 1 ♂, Mt Dempo, E. Sumatra, April 1985, in J. Uehara collection (Kanagawa); 1 ♀, Silarahi, Kalo Hills, Sumatra Utara, 17 July 1997, Rick Effendy leg., in K. Maruyama collection (Tokyo).

Distribution. Sumatra.

Remarks. The new species is similar to *Capila pieridoides* (Figs 5–7, 12–14) but differs from it in the wing pattern and structure of male genitalia. Male forewing of all subspecies belonging to *C. pieridoides* have no black spots in spaces or cell, but underside of hindwing has a black spot in cell. Female forewing and hindwing of all the known subspecies of *C. pieridoides* are brown. In the male genitalia, upper portion of valva of new species is longer than in *C. pieridoides*, and middle portion of valva of new species is shorter than in



Figs 1–4. *Capila sumatrana* Maruyama & Uehara, sp. nov. 1. Holotype ♂, upperside. 2. *Ditto*, underside. 3. Paratype ♀, upperside. 4. *Ditto*, underside.

Figs 5–8. *Capila pieridoides sofa* Evans, 1934, Malay Pen. 5. ♂, upperside. 6. ♂, underside. 7. ♀, upperside. 8. ♀, underside.

Figs 9–12. *Pintara prasobsuki lao* Maruyama & Uehara, subsp. nov. 9. Holotype ♂, upperside. 10. *Ditto*, underside. 11. Paratype ♀, upperside. 12. *Ditto*, underside.

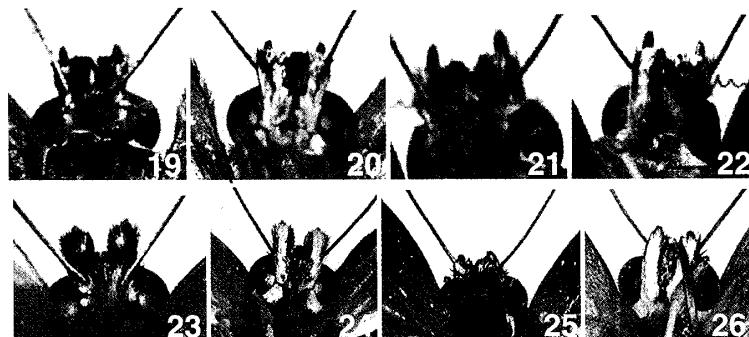
Figs 13, 14. *Pintara prasobsuki prasobsuki* (EK-Amnuay, 2006), N. Thailand, holotype (EK-Amnuay, 2006) ♂. 13. Upperside. 14. Underside.

Figs 15–18. *Capila pauripuneatata tamdaoensis* Devyatin, 1996, Tam Dao, N. Vietnam. 15. ♂, upperside. 16. ♂, underside. 17. ♀, upperside. 18. ♀, underside.

pieridoides.

***Pintara prasobsuki lao* Maruyama & Uehara, subsp. nov. (Figs 9–12, 19–22, 41–43)**

Description. ♀. Palpus: second segment slightly porrect with white and black scales below, black above; third segment thick and long. Antenna: length 13.2 mm; shaft black above, whitish brown below; club arcuate, cream-colored below, black above; apiculus sharply



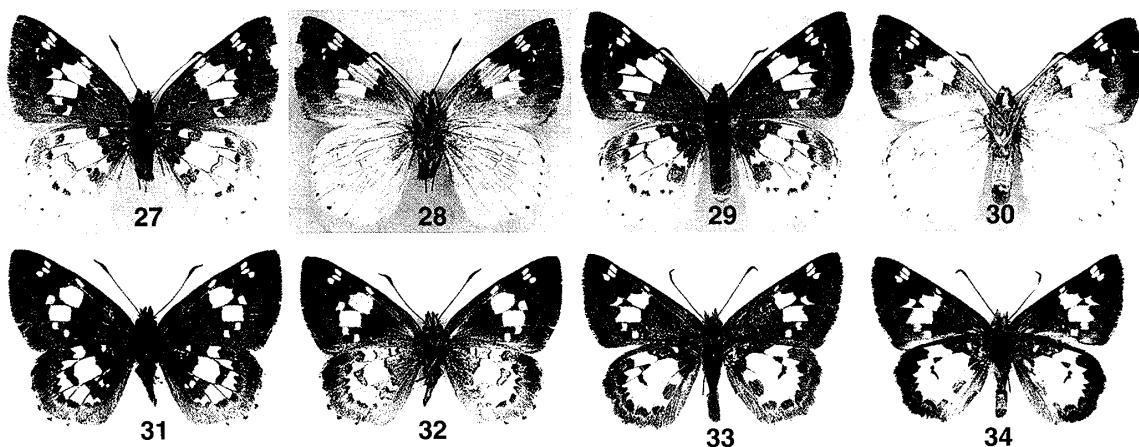
Figs 19–22. Palpi of *Pintara prasobsuki lao* Maruyama & Uehara, subsp. nov. 19. Holotype ♂, upperside. 20. *Ditto*, underside. 21. Paratype ♀, upperside. 22. *Ditto*, underside.

Figs 23–26. Palpi of *Capila pauperrima tamdaoensis* Devyatkin, 1996, Tam Dao, N. Vietnam. 23. ♂, upperside. 24. ♂, underside. 25. ♀, upperside. 26. ♀, underside.

pointed, tip reddish brown below. Forewing: length 25.3 mm, with costal fold, upper side brown with white hyaline spots in spaces 1b to 8 and two in cell, with white hyaline streaks in spaces 2, 3, 4, 10, 11 and in cell, cilia brown; underside same as upper side. Hindwing: length 19.3 mm, upper side brown with black spots in spaces 1b to 6 (also 7 in paratype) and in cell, cilia brown; underside same as upper side.

♀. Palpus: second segment slightly porrect with white and black scales below, black above; third segment thick and long. Antenna: length 13.5 mm; shaft black above, whitish brown below; club arcuate, cream-colored below, black above; apiculus sharply pointed, tip reddish brown below. Forewing: length 26 mm, upper side brown with white hyaline spots in spaces 1b to 8 and in cell, with no white hyaline streaks in spaces and in cell, cilia brown; underside same as upper side. Hindwing: length 21 mm, upper side brown with black spots in spaces 1b to 7 and in cell, cilia brown; underside same as upper side.

Male genitalia (Figs 41–43). Uncus same size as tegumen and curved. Gnathos short. Cuiller asymmetric, broad, tip projecting. Harpe simple and long. Aedeagus slender and curved.



Figs 27–30. *Coladenia koiwayai* Maruyama & Uehara, sp. nov. 27. Holotype ♂, upperside. 28. *Ditto*, underside. 29. Paratype ♀, upperside. 30. *Ditto*, underside.

Figs 31, 32. *Coladenia vitrea* Leech, 1894, Siao-Lou (BMNH), ♂. 31. Upperside. 32. Underside.

Figs 33, 34. *Coladenia sheila* Evans, 1939, Fukien (BMNH), ♂. 33. Upperside. 34. Underside.

Material examined. Holotype ♂, Nakhai to Laksao 20 km, C. Laos, alt. 548 m, N17°52.05.4, E105°02.32.9, 4 May 2006, K. Maruyama leg., now in K. Maruyama collection (Tokyo), will be deposited in The Research Institute of Evolutionary Biology (Tokyo). Paratypes. 1 ♂, Oudomxay, N. Laos, 2, May 1995, J. Uehara leg.; 1 ♂, Xamneua, N. Laos, 9, May 2004; 2 ♀, Xamneua, N. Laos, May 2004, 8, May 2006, in J. Uehara collection (Kanagawa).

Distribution. Laos.

Remarks. The new subspecies differs from the nominotypical subspecies, *P. prasobsuki* (EK-Amnuay, 2006), stat. nov., which was described as *Capila paupipunetata prasobsuki* from N. Thailand, as follows. Discal spots in forewing cell are two but in the nominotypical subspecies one. This species is quite similar to *Capila paupipunetata* in appearance, but differs from it as follows. The second segment of the palpus is slightly porrect and the third one long in *P. prasobsuki*; this character shows *P. prasobsuki* to be in the *Tagiades* group of Evans (1949), but the second segment of the palpus is erect and the third one short in *C. paupipunetata*. This character shows *C. paupipunetata* to belong in the *Celaenorrhinus* group of Evans (1949). The underside of the second segment of the palpus has white and black scales in *P. prasobsuki* but pale yellow in *C. paupipunetata*. The male genitalia of the two species are quite different.

***Coladenia koiwayai* Maruyama & Uehara, sp. nov. (Figs 27–30, 47–49)**

Description. ♂. Palpus: second segment porrect, with white scales below, with white and black scales above; third segment thick and long. Antenna: length 7.8 mm; shaft black above, checked white and black below; club arcuate, black with white scales below, black above; apiculus sharply pointed, black below and above. Forewing: length 20.0 mm, upper side black with white hyaline spots in spaces 1b to 8 (some paratypes lack spots in spaces 4 and 5), 10 and in cell, discal and subapical spots conjoined, cilia black; underside same as upper side but spaces 1a and 1b with white scales. Hindwing: length 15.4 mm, upper side basal area black, marginal and tornal area white, discal area with hyaline spots, these spots conjoined, cilia white; underside white.

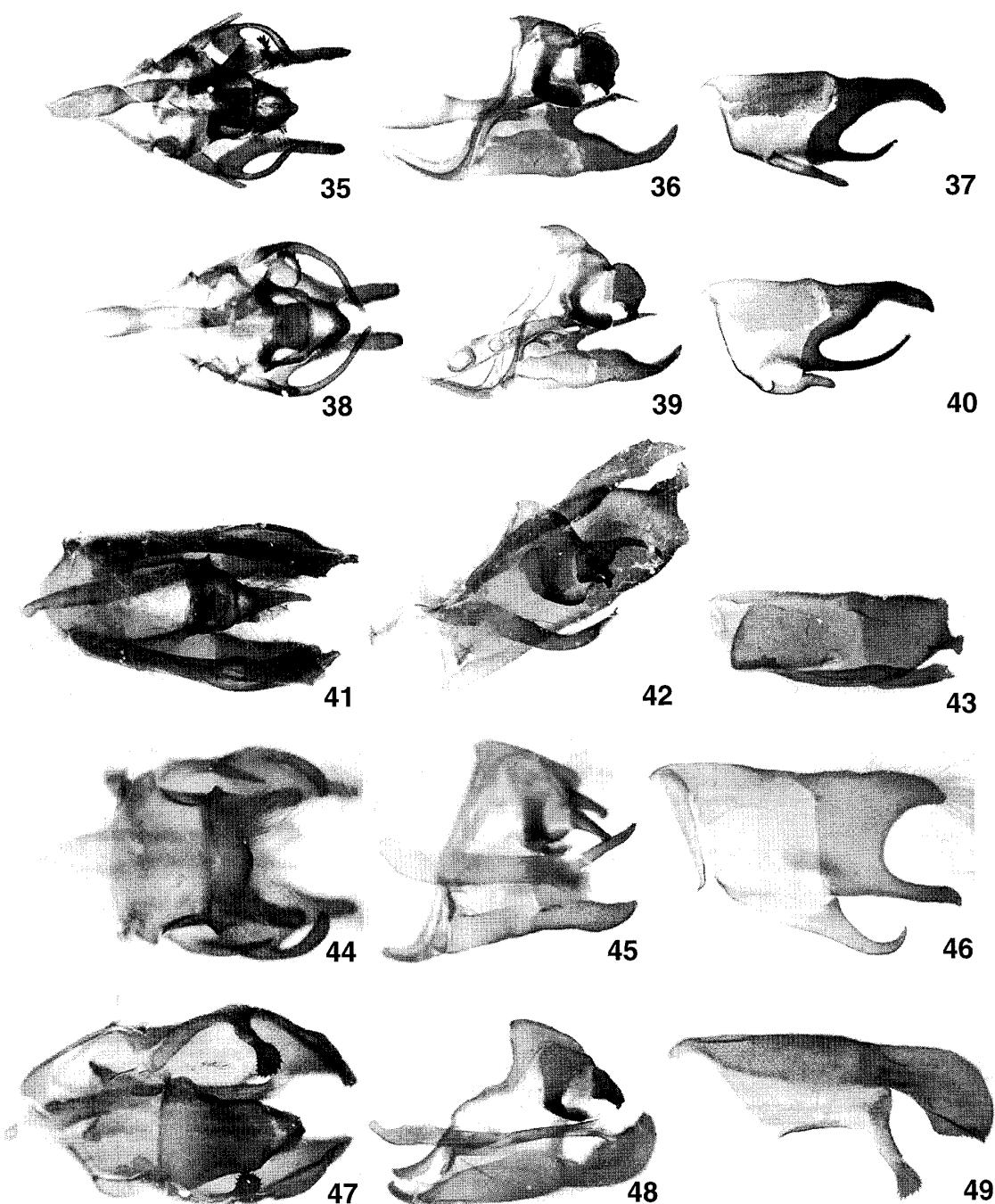
Male genitalia (Figs 47–49). Uncus shorter than tegumen in size. Cuiller broad, tip round. Harpe long, tip as spoon. Aedeagus slender and long.

♀. Same as male but large: Antenna: length 9.6 mm. Forewing: length 22.8 mm. Hindwing: length 16.4 mm.

Material examined. Holotype ♂, Phu Pan, near Xamneua, N. Laos, alt. 1,858 m, N20°11.33.8, E104°01.03.3, 23 March 2001, now in K. Maruyama collection (Tokyo), will be deposited in The Research Institute of Evolutionary Biology (Tokyo). Paratypes. 3 ♂, same locality as holotype, 25, 29 and 30 March 2001; 7 ♀, same locality as holotype, 22, 23, 25, 30, 30 and 30 March 2001 in K. Maruyama collection; 14 ♂, same locality as holotype, 14 March 1999, 2, 2 and 3 March 2001, 20 April 2002, 15 March 2004, 17, 21, 24 and 24 March, 18 and 22 April 2006, 13 and 19 March 2007; 10 ♀, same locality as holotype, 27 March, 7, 9 and 13 April 2001, 14 March and March 2002, 22 and 28 March 2005, 26, March, 26, April 2006, in J. Uehara collection (Kanagawa).

Distribution. Laos.

Remarks. The new species is similar to *Coladenia vitrea* Leech, 1894 (Figs 31, 32) and *Coladenia sheila* Evans, 1939 (Figs 33, 34), but palpus second segment color is different. *C. vitrea*: gray; *C. sheila*: bright orange; *C. koiwayai*: whitish and hindwing costal area of *C. koiwayai* is white.



Figs 35-37. Male genitalia of *Capila sumatrana* Maruyama & Uehara, sp. nov., holotype. 35. Ddorsal view. 36. Lateral view, with left valva removed. 37. Inner view of left valva.

Figs 38-40. Male genitalia of *Capila pieridooides sofa* Evans, 1934, Malay Pen. 38. Dorsal view. 39. Lateral view, with left valva removed. 40. Iinner view of left valva.

Figs 41-43. Male genitalia of *Pintara prasobsuki lao* Maruyama & Uehara, subsp. nov., holotype. 41. Dorsal view. 42. Lateral view, with left valva removed. 43. Inner view of left valva.

Figs 44-46. Male genitalia of *Capila paupipuneatata tamdaoensis* Devyatkin, 1996, Tam Dao, N. Vietnam. 44. Dorsal view. 45. Lateral view, with left valva removed. 46. Inner view of left valva.

Figs 47-49. Male genitalia of *Coladenia koiwayai* Maruyama & Uehara, sp. nov., holotype. 47. Dorsal view. 48. Lateral view, with left valva removed. 49. Inner view of left valva.

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摘要

スマトラ及びラオスから発見されたチャマダラセセリ亜科の2新種及び1新亜種(丸山 清・上原二郎)

スマトラからオバケセセリ属(*Capila*)の新種を記載した。大陸からマレー半島、ボルネオ島に広く分布する♂の斑紋が白いピエリドイデスオバケセセリ(*Capila pieridooides*)の各亜種とは、♂については、前翅に黒紋があること、後翅(裏面)の中室に黒紋がないこと、バルバの形状が異なることにより区別ができる。♀については、ピエリドイデスオバケセセリ各亜種の既知の斑紋が褐色であるに対し、新種は白色であることにより区別できる。

ラオスからプラソブスクトラガセセリ(*Pintara prasobsuki*)の新亜種 *P. prasobsuki lao*を記載した。北タイから記載された原名亜種(*Pintara prasobsuki* (Ek-Amnuay, 2006))とは、前翅中室の透明班が新亜種は2個であるのに対し、原名亜種は1個であることにより区別できる。なお、プラソブスクトラガセセリは、当初、パウリップネタタオバケセセリ(*Capila pauripunetata*)の亜種として記載されたものである。また、プラソブスクトラガセセリの外観はパウリップネタタオバケセセリ(*Capila pauripunetata*)と酷似する。しかし、プラソブスクトラガセセリは下脣鬚第2節が前面に突出し第3節が長いことにより、下脣鬚第2節が直立し第3節が短いパウリップネタタオバケセセリと区別できる。また、下脣鬚第2節下部の色彩は、プラソブスクトラガセセリが白っぽいのに対し、パウリップネタタオバケセセリは薄黄色となる。さらに、♂交尾器は著しく異なる。

ラオスからクロテンセセリ属(*Coladenia*)の新種を記載した。中国西南部から記載されたビトレアクロテンセセリ及びシエイラクロテンセセリに似るが、ビトレアクロテンセセリのが灰色、シエイラクロテンセセリの下脣鬚第2節下部がオレンジ色であるのに対し、新種は白色を帯びる点が異なる。また、新種の後翅外縁部は白色となる点により区別できる。

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